

Day One: Wednesday, June 1 (Building 33, Room H114)

8:00am	Registration starts/Coffee/Posters	
8:50am-9:00am	Meeting Welcome	(Betsy Middleton, GSFC)
<u>Session I: Missions (Betsy Middleton/GSFC, Chair)</u>		
9:00am-9:20am	HyspIRI Mission Update Overview	(Woody Turner, HQ)
9:20am-9:40am	Decadal Survey Status & HyspIRI White Paper	(Rob Green, JPL)
9:40am-10:00am	Linkages between HyspIRI Science & International EO Programs	(Miguel Roman, GSFC)
10:00am-10:30am	Coffee Break	
<u>Session II: Terrestrial Ecosystem Priorities (Woody Turner/HQ, Chair)</u>		
10:30am-11:15am	KEYNOTE: The Case for a Global Biodiversity Observatory	(Susan Ustin, UC Davis)
11:15am-11:35am	Survey of science benefits w/spectroscopy	(Rob Green, JPL)
11:35am-11:50am	The future of spectroscopy in Europe	(Andreas Mueller, DLR, Betsy Middleton, GSFC)
11:50am-12:05pm	The Fluorescence Explorer (FLEX) Space Mission	(Neus Sabater, U. Valencia)
12:05pm-12:25pm	Discussion: <i>Steps toward achieving the next NASA Spectrometer in Space?</i>	(Woody Turner et al.)
12:25pm-12:35pm	Group Picture	
12:35pm-1:30pm	Lunch /Posters	
<u>Session III: Cal/Val Activities (Chris Neigh, Chair)</u>		
1:30pm-1:50pm	Cross-calibration of MODIS and Landsat using EO-1 Hyperion	(Amit Angal, SSAI)
1:50pm-2:10pm	EO-1 Hyperion MS band synthesis	(Guoqing Sun, ESSIC)
2:10pm-2:30pm	EOM Cal/Val Studies: Libya and Railroad Valley	(Chris Neigh, GSFC)
2:30pm-2:50pm	The Atmospheric Spectroscopy Spectrum-Matching Technique	(Bo-Cai Gao, NRL)
2:50pm-3:10pm	FUSION: a GSFC Prototype for Field Spectroscopy Cal/Val	(Fred Huemmmrich, UMBC)
3:10pm-3:30pm	Coffee Break [10 min, Phil Townsend (U. WI) WebEx Tutorial: EcoSys Spectral Library]	
<u>Session IV: HyspIRI Science Preparatory Activities: Applications (Jeff Luvall, MSFC)</u>		
3:30pm-3:45pm	Perspectives for the NASA Application Program	(Lawrence Friedl, HQ)
3:45pm-4:00pm	The HyspIRI Applications Program	(Jeff Luvall, MSFC)
4:00pm-4:15pm	Sensor Networks, EO-1 Disaster Support	(Stu Frye, SGT)
<u>Session V: HyspIRI Science Preparatory Activities: New Technologies & Products (Dan Mandl/GSFC, Chair)</u>		
4:15pm-4:30pm	Intelligent Payload Module	(Dan Mandl, GSFC)
4:30pm-4:45pm	AVIRIS Atmospheric Correction & Products	(David Thompson, JPL)
4:45pm-5:00pm	Onboard Low Latency Products, Co-registration, AC, Sun glint	(Pat Cappelaere, Vighetel)
5:00pm-5:15pm	Mapping Antarctic Vegetation Stress Indicator with Hyperspectral UAS	(Zbynek Malenovsky, GSFC)
5:15pm-5:30pm	Spectral UAS for Ecosystem Monitoring	(Petya Campbell, UMBC)
5:30pm-5:45pm	EOM Impacts on Vegetation Studies with Hyperion & ALI	(Shannon Franks, SGT)
5:45pm	Happy Hour & 6+ Flash Talks (2-3 min each)	
6:35pm	Adjourn, Day One	
6:50pm	Holiday Inn Shuttle pick-up from GSFC Visitor Center Parking Lot	

Day Two: Thursday, June 2 – (Building 33, Room H114)

8:00am Registration

Session VI: HyspIRI Preparatory Activities: Airborne Campaigns (Simon Hook, Chair)

8:30am-8:45am	Perspectives on the HyspIRI Airborne Campaigns	(Jack Kaye, HQ)
8:45am-9:00am	HyspIRI Airborne Campaigns - Overview	(Rob Green, JPL)
9:00am-9:15am	Mineral Maps Covering the Salton Sea Areas of S. California	(Lyle Mars, USGS)
9:15am-9:30am	Ground Measurement Support for Airborne Campaigns	(Susan Ustin, UC Davis)
9:30am-9:45am	Monitoring water quality & soils at Leviathan Mine	(Wendy Calvin, U. Nevada)
9:45am-10:00am	Spectral-structural interactions at fine-scales	(Jan van Aardt, Rochester Inst.)
10:00am-10:15am	Surface radiation & energy budget from AVIRIS and MASTER	(Dongdong Wang, UMD)
10:15am-10:30am	Volcanoes in Hawaii	(Vince Realmuto & Simon Hook, JPL)
10:30am-10:45am	Linking Ecosystem Models with Imaging Spectrometry Measurements	(Paul Moorcroft, Harvard U.)

10:45am-11:05am Coffee Break

Session VII: International High Resolution Spectroscopy (Steve Ungar/GESTAR, Chair)

11:05am-11:20am	GEDI	(Bryan Blair, GSFC)
11:20am-11:35am	HICO Time Series for GPP	(Fred Huemmrich, UMBC)
11:35am-11:50am	EO-1's Changing Precession Provides Relevance to ISS & Other EOS	(Steve Ungar, GESTAR)
11:50am-12:05pm	DESI Spectrometer on ISS	(Ray Perkins, Teledyne Brown)
12:05pm-12:20pm	Update on ECOSTRESS	(Simon Hook, JPL)
12:20pm-12:45pm	Update on SLI, Landsat & Sentinel- 2	(Bruce Cook, GSFC)
12:45pm-1:00pm	Discussion: Synergies among Orbital Assets	(Simon Hook, JPL)

1:00pm-1:50pm Lunch /Posters

Session VIII: HyspIRI Science Preparatory Activities: Carbon Science (Petya Campbell/UMBC, Chair)

1:50pm-2:10pm	ET High Res Applications in Agriculture	(Martha Anderson, USDA-ARS)
2:10pm-2:25pm	Hyperion Detection & Characterization of the CA Methane Event	(David Thompson, JPL)
2:25pm-2:40pm	Detection of Methane and Other Trace Gases with HyTES	(Glynn Hulley, JPL)
2:40pm-2:55pm	Improving GPP Estimation in CLM using the MODIS fAPARchl product	(Tian Yao, GESTAR)
2:55pm-3:15pm	Uncertainties in Estimates of fAPAR for Photosynthesis (fAPAR_PSN)	(Qingyuan Zhang, GESTAR)
3:15pm-3:35pm	EO-1 Spectral Time Series for GPP	(Petya Campbell, UMBC)

3:35pm-3:55pm Coffee Break

Session IX: HyspIRI Science Preparatory Activities: Various (Fred Huemmrich, Chair)

3:55pm-4:15pm	Cryosphere Study in Michigan	(Chris Crawford, GSFC)
4:15pm-4:35pm	Urban Applications	(Dale Quattrochi & Jeff Luvall, MSFC)
4:35pm-4:50pm	Improving Forest Modeling with Spectrally Derived Traits	(Amanda Armstrong, GESTAR)
4:50pm-5:05pm	REMOTE: Novel Algorithm for Microcystis Observations in Lake Erie	(Joe Ortiz, Kent State)

5:05pm-5:20pm Symposium Wrap-Up Discussion

5:20pm Adjourn, Day Two

5:35pm Holiday Inn Shuttle pick-up from GSFC Visitor Center Parking Lot

6:00pm-8:00pm Social Hour & Dinner at Sir Walter Raleigh (6323 Greenbelt Rd, Greenbelt, MD)

Day Three: Friday, June 3 (Building 34, Room W150)

8:00am

Registration

Session X: Science Study Group Round Table (with telecom access)

8:30am-10:00am

Topics: IGARSS 2017 Plan for Publications using DS RFI#2s

10:05am-10:45am

Coffee Break

Aquatic Forum

Aquatic Forum Intro (Kevin Turpie, Chair)

10:45am-11:05am

Welcome, HyspIRI Overview, and ASG Activity Update

(Kevin Turpie, UMBC)

Session XI-A: Aquatic Airborne Campaigns

11:05am-11:30am

REMOTE: APEX Airborne Hyperspectral Data over European Coasts

(Sindy Sterckx/Els Knaeps, VITO)

11:30am-11:45am

CORAL and HyspIRI Airborne Campaign – Hawaii

(Rob Green, JPL)

11:45am-12:00pm

G-LiHT Flights over Southern Florida Mangroves

(David Lagomasino, USRA)

12:00pm-12:15pm

Airshrimp Airborne Campaign

(John Moisan & Tiffany Moisan, WFF)

12:15pm-1:00pm

Lunch

Session XI-B: Aquatic Airborne Campaigns

1:00pm-1:15pm

CyAN Project

(Jeremy Werdell, GSFC)

1:15pm-1:30pm

Airborne Hyperspectral Observation of Harmful Algal Bloom

(Larry Liou, GRC)

1:30pm-1:45pm

Assessing seagrass ecosystems from hyperspectral remote sensing imagery: distributions and carbon dynamics

(Heidi Dierssen, U. Conn)

1:45pm-2:00pm

REMOTE: In-Water Observations and HyspIRI Preparatory Airborne Campaign

(Raphe Kudela, UCSC)

2:00pm-2:15pm

Coffee Break/Group Picture

Session XIII: Aquatic Missions

2:15pm-2:35pm

GeoCAPE Mission Update

(Antonio Mannino, GSFC)

2:35pm-2:55pm

PACE Mission Update

(Jeremy Werdell, GSFC)

2:55pm-3:15pm

HyspIRI Water Temperature Measurements

(Glynn Hulley & Simon Hook, JPL)

3:15pm-3:45pm

Discussion Topic: *Types of Data Needed for Coastal and Inland Data Product Development*

3:45pm

Adjourn, End of Symposium

4:15pm

Holiday Inn Shuttle pick-up from GSFC Visitor Center Parking Lot